





PAGER Version 1

10.000

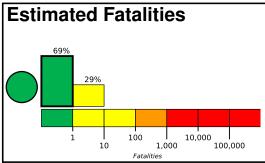
100,000

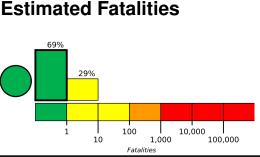
Created: 1 hour, 1 minute after earthquake

1,000

USD (Millions

M 4.2, 1km WSW of The Geysers, CA Origin Time: 2019-11-03 20:34:57 UTC (Sun 12:34:57 local) Location: 38.7753° N 122.7682° W Depth: 2.2 km





Green alert for shaking-related fatalities Estimated Economic Losses and economic losses. There is a low likelihood of casualties and damage. 65%

Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		2,398k*	113k	2k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVE	SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

^{*}Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan

123.2°W 122.5 Redwood Valley Arbuckle Clover W Sea Ranch Windsor 38.2 ° N

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty. https://earthquake.usgs.gov/earthquakes/eventpage/nc73300395#pager

Structures

Overall, the population in this region resides in structures that are highly resistant to earthquake shaking, though some vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

Historical Earthquakes

Date	Dist.	Mag.	Max	Shaking
(UTC)	(km)		MMI(#)	Deaths
1993-09-21	397	6.0	VI(47k)	1
2003-12-22	381	6.6	VI(8k)	2
1989-10-18	204	6.9	VIII(109k)	62

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

MMI	City	Population
IV	Cobb	2k
Ш	Middletown	1k
II	Hidden Valley Lake	6k
II	Kelseyville	3k
II	Lower Lake	1k
II	Healdsburg	11k
I	Santa Rosa	168k
1	Concord	122k
I	Vallejo	116k
1	Fairfield	105k
1	Antioch	102k

bold cities appear on map.

(k = x1000)